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analyte and voltage and frequency and best fit

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Electrowetting dynamics of microfluidic actuation

[\(PDF\) from rochester.edu](#)

KL Wang... - Langmuir, 2005 - ACS Publications

... systems (μ TASs) is some sort of microfluidic plumbing system to dispense, move, manipulate, and mix tiny volumes of liquid **analyte** and reagent. ... 5 plots height-of-rise data for DI water, two aqueous mannitol solutions, and ethylene glycol at fixed **voltage** and **frequency**. ...

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Formaldehyde assay by capacitance versus **voltage** and impedance measurements using bi-layer bio-recognition membrane

M Ben Ali, Y Korpan, M Gonchar, A ElSkaya... - Biosensors and ..., 2006 - Elsevier

... method has been described for the determination of formaldehyde traces by direct in situ **analyte** derivatization with ... At low **frequency**, and with an applied **voltage** of -1.6 V versus Ag/AgCl, the value ... reason, we use a polarization of -1.6 V versus Ag/AgCl and a **frequency** of 0.5 ...

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Real time kinetic analysis with quartz crystal resonator sensors

R Lucklum, S Doerner, T Schneider... - ..., Frequency Control ..., 2006 - ieeeexplore.ieee.org

... The measurement **frequency** within a spectrum may be alternatively increased in logarithmic intervals to customize the spectrum data to the behavior of the **analyte**. ... The sine regression has to be applied for each **voltage** channel and for each signal **frequency**. ...

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Study of zone broadening in optically gated high-speed capillary electrophoresis

AW Moore Jr... - Analytical chemistry, 1993 - ACS Publications

... for a particular **analyte** can be found experimentally from the migration time of an **analyte** and the \sim OSM ... that short capillary lengths will give very short migration times, and if the applied **voltage** is maintained ... The above **equations** assume the entire length of the capillary is used. ...

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Colorimeter apparatus and related process

DJ Schneider, GL Claypoole... - US Patent 6,404,500, 2002 - Google Patents

... The results of the evaluation of steps one to seven above may be converted into an electrical current, **voltage** or radio **frequency** ... is then determined by reference to a linear graph of the digital waveform where x is the concentration of the **analyte** and y is the **frequency** of the ...

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Ultrahigh-pressure reversed-phase capillary liquid chromatography: Isocratic and gradient elution using columns packed with $1.0\text{-}\mu\text{m}$ particles

JE MacNair, KD Patel... - Analytical chemistry, 1999 - ACS Publications

... efficiencies were determined, chromatograms were background-subtracted 10 to remove low-**frequency** baseline drift ... The current generated by the PMT was converted to a **voltage** with a Stanford ... plots in Figure 5 vary somewhat, as they are dependent on **analyte** retention and ...

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AOTFs as atomic spectrometers: Basic characteristics

G Fulton... - Applied spectroscopy, 1996 - opticsinfobase.org

... depending on the **voltage**/digital number relationship of the DAC, the rf **frequency/voltage** relationship of ... by noting the exact wavelength of light that is diffracted when a particular **voltage** is applied ... The curve of **best fit** was determined to be the sixth-order polynomial $Y = 760.468$...

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Determining oxygen diffusion coefficients in polymer films by lifetimes of luminescent complexes measured in the **frequency** domain

WJ Bowyer, W Xu... - Analytical chemistry, 2004 - ACS Publications

... 9-14 One of the fundamental properties is the diffusion coefficient of the **analyte** through the polymer ... with a silicon photodiode, and the signal was amplified with a current-to-**voltage** converter ... 2.1×10^{-6} cm²/s. Thus, all of these data suggest that using **frequency** domain lifetime ...

[Cited by 16](#) - [Related articles](#) - [BL Direct](#) - [All 4 versions](#)

Fundamental aspects of contactless conductivity detection for capillary electrophoresis. Part I:

Frequency behavior and cell geometry

P Kubáň... - Electrophoresis, 2004 - Wiley Online Library

... Most **analytes** require derivatization for fluorescence detection and therefore the alternative electrochemical detection techniques of potentiometry [1], amperometry [2-4] ... is usually visualized with so-called Bode plots, a log-log plot of the gain or output **voltage** vs. **frequency**. ...

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Quantitative noncontact electrostatic force imaging of nanocrystal polarizability

[\[PDF from ohio.edu\]](#)

O Cherniavskaya, L Chen, V Weng... - *The Journal of ...*, 2003 - ACS Publications

... is necessary to have the ω smaller than half of the low pass filter cutoff **frequency** when both ... in Figure 4a. Because all of the probe components are at the same **voltage**, C tot ... order to accurately describe the interactions between the centers of charge-mass of the **analyte** and the ...

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